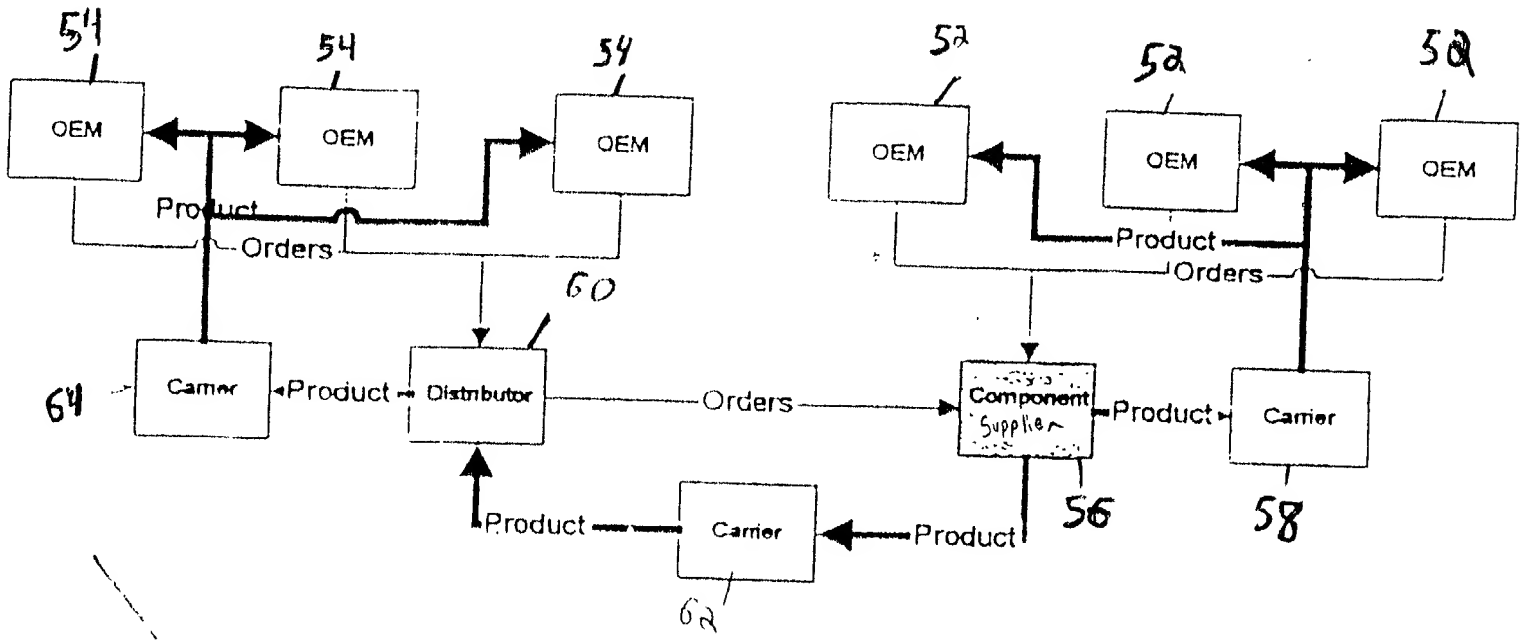
TOTTO 6058260



50

Prior Art

Fig. 1

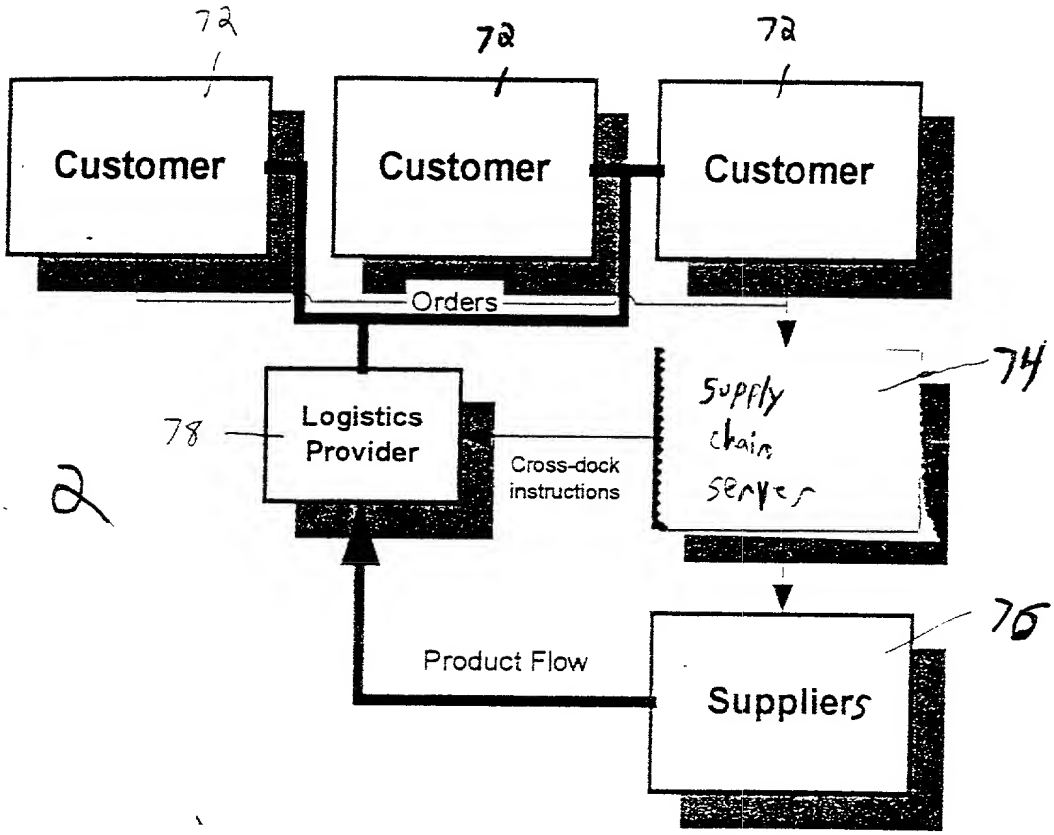

72
72
72
Customer
Customer
Customer
70
Orders
74
Supply chain server
78
Logistics Provider
Cross-dock instructions
Product Flow
76
Suppliers

Fig. 2

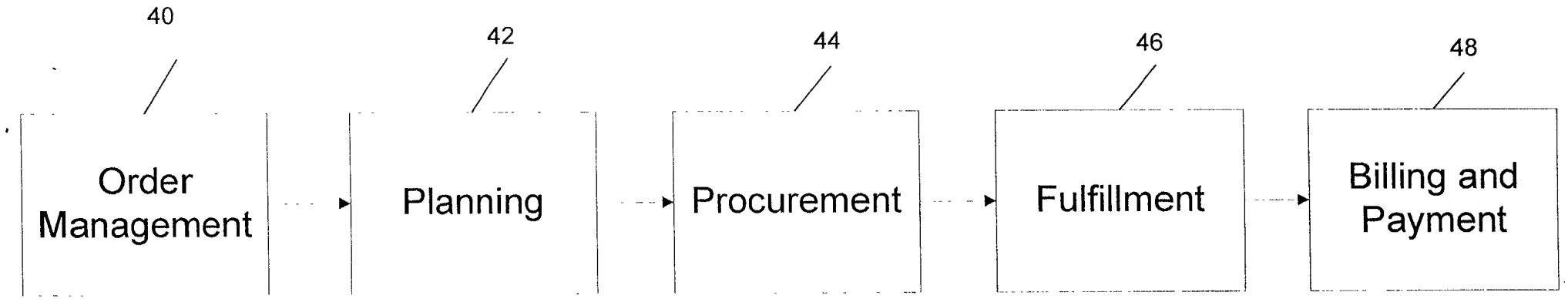

40
42
44
46
48
Order Management
Planning
Procurement
Fulfillment
Billing and Payment

Fig. 3

Order Management: Process Flow

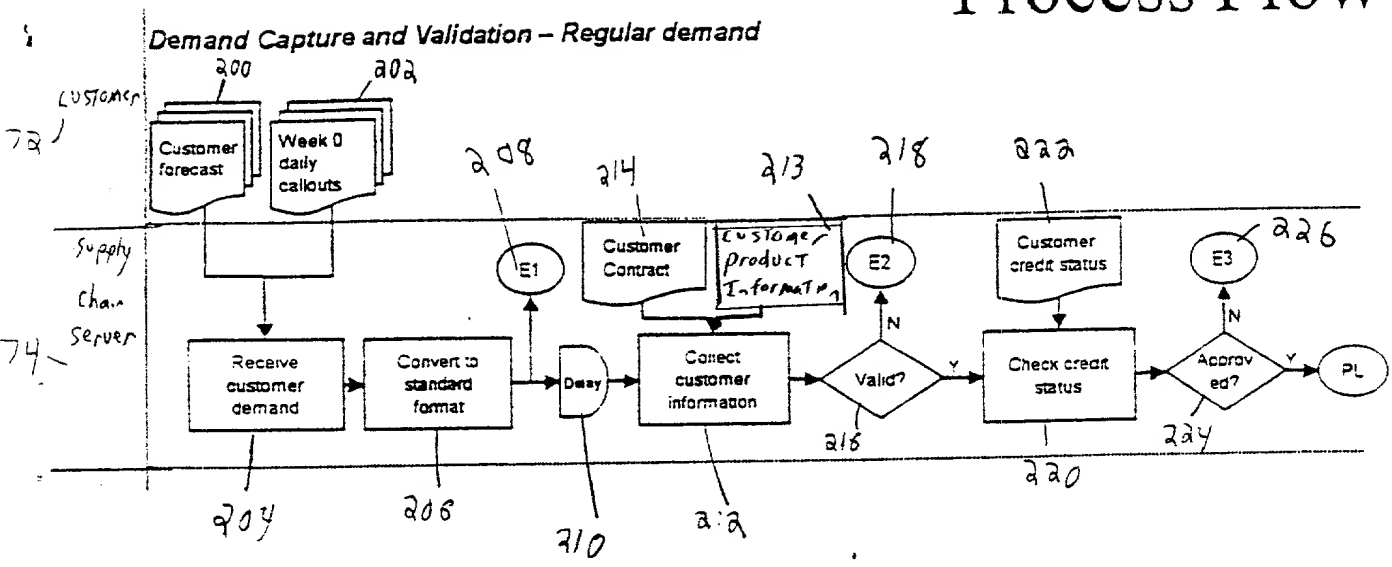


Fig. 4

Order Management: Process Flow

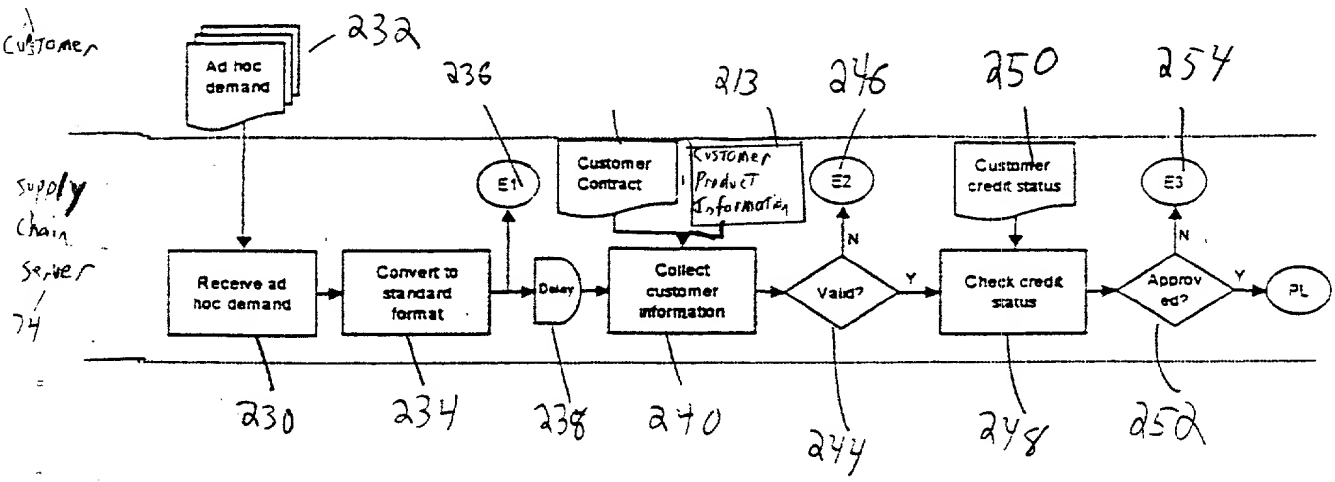


Fig. 5

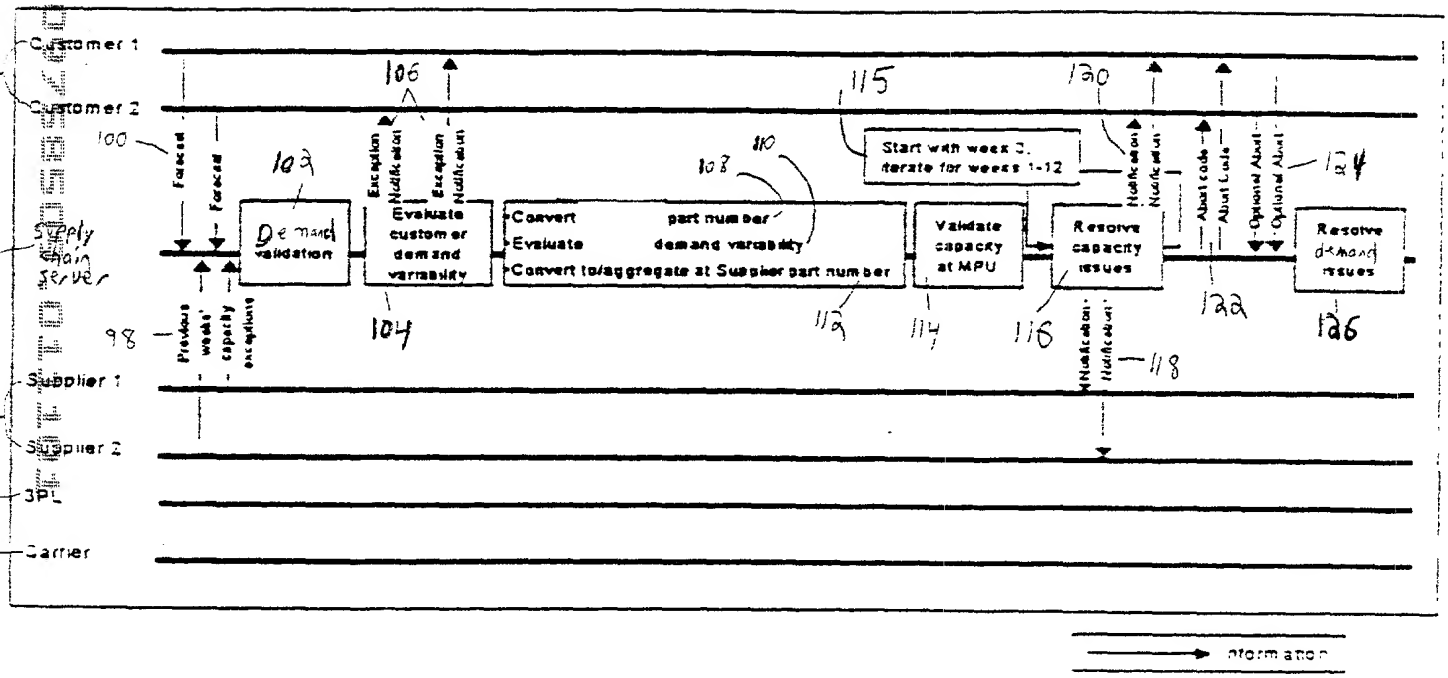

Customer 1
Customer 2
Supply chain server
Supplier 1
Supplier 2
3PL
Carrier
Forecast
Forecast
Demand validation
Exception Notification
Exception Notification
Evaluate customer demand variability
Convert part number
Evaluate demand variability
Convert to aggregate at Supplier part number
Start with week 0, iterate for weeks 1-12
Validate capacity at MPU
Resolve capacity issues
Notification
Notification
Abort code
Abort code
Optional Abort
Optional Abort
Resolve demand issues
Previous week's capacity exception
Notification
Notification
100
102
104
106
108
110
112
114
115
116
118
120
122
124
126
98
information

Fig. 6

Planning: Process Flow

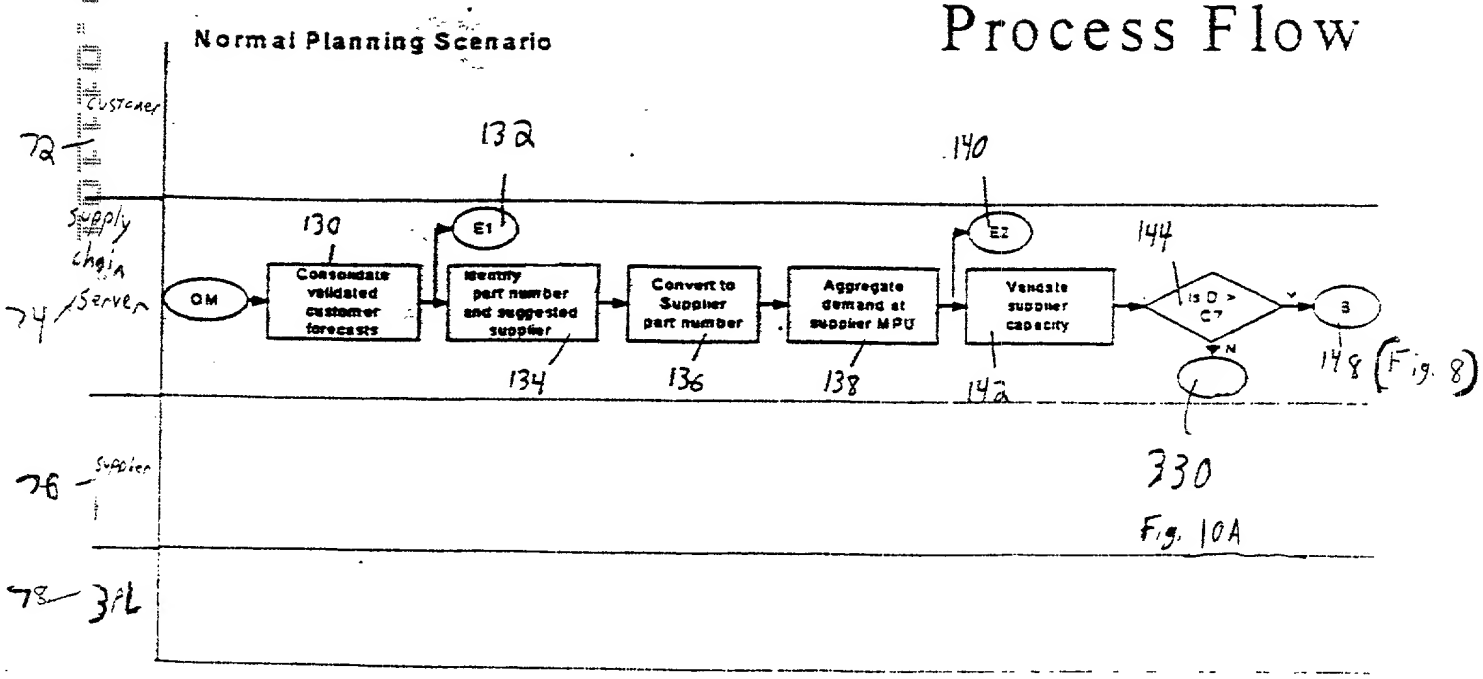


Fig. 10A

Fig. 7

Planning: Process Flow

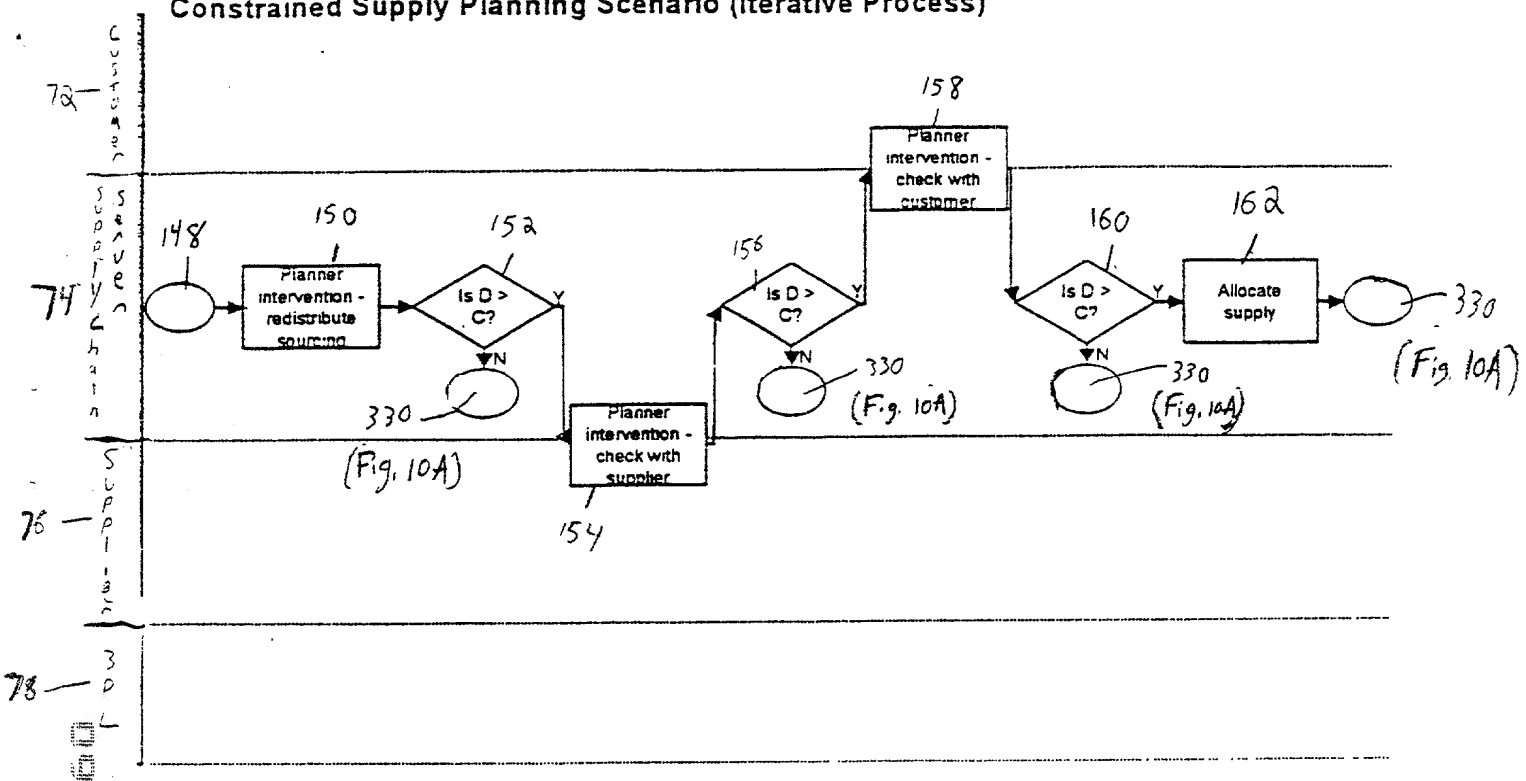


Fig. 8

Planning:
Process Flow –

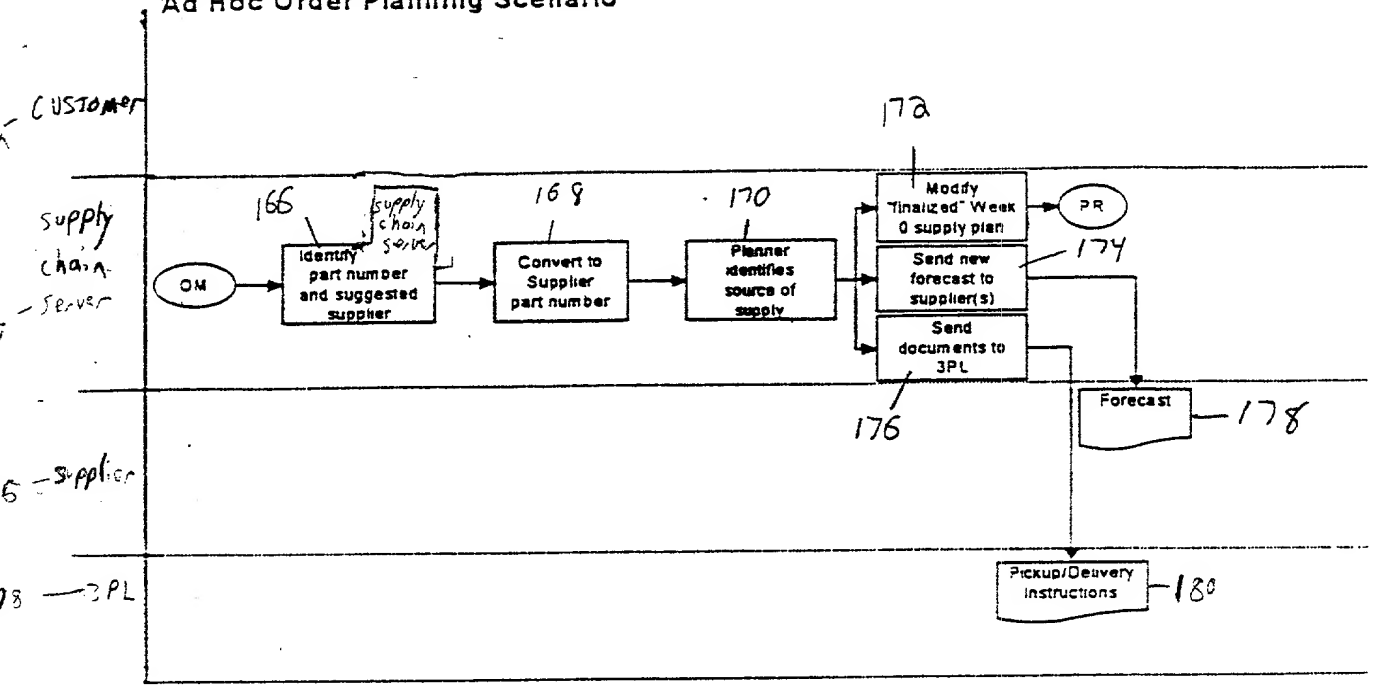


Fig. 9

Procurement: Process Flow

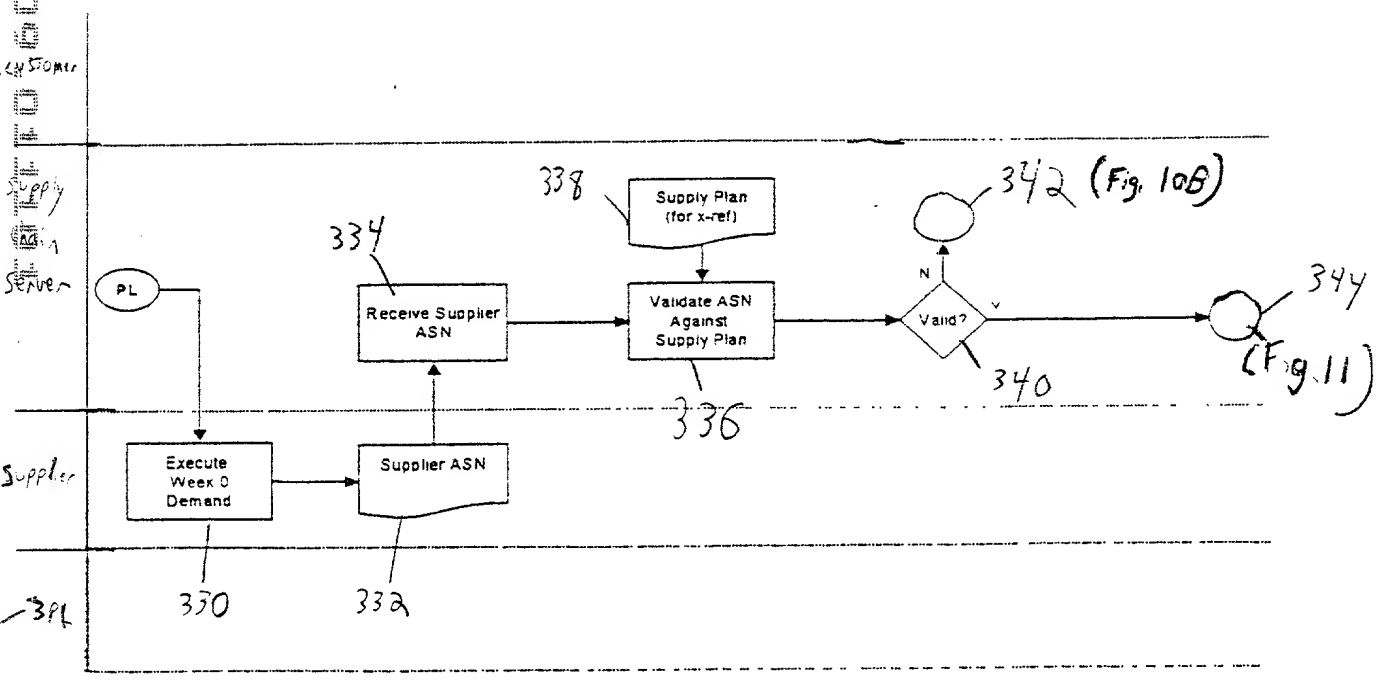


Fig. 10A

Procurement: Process Flow

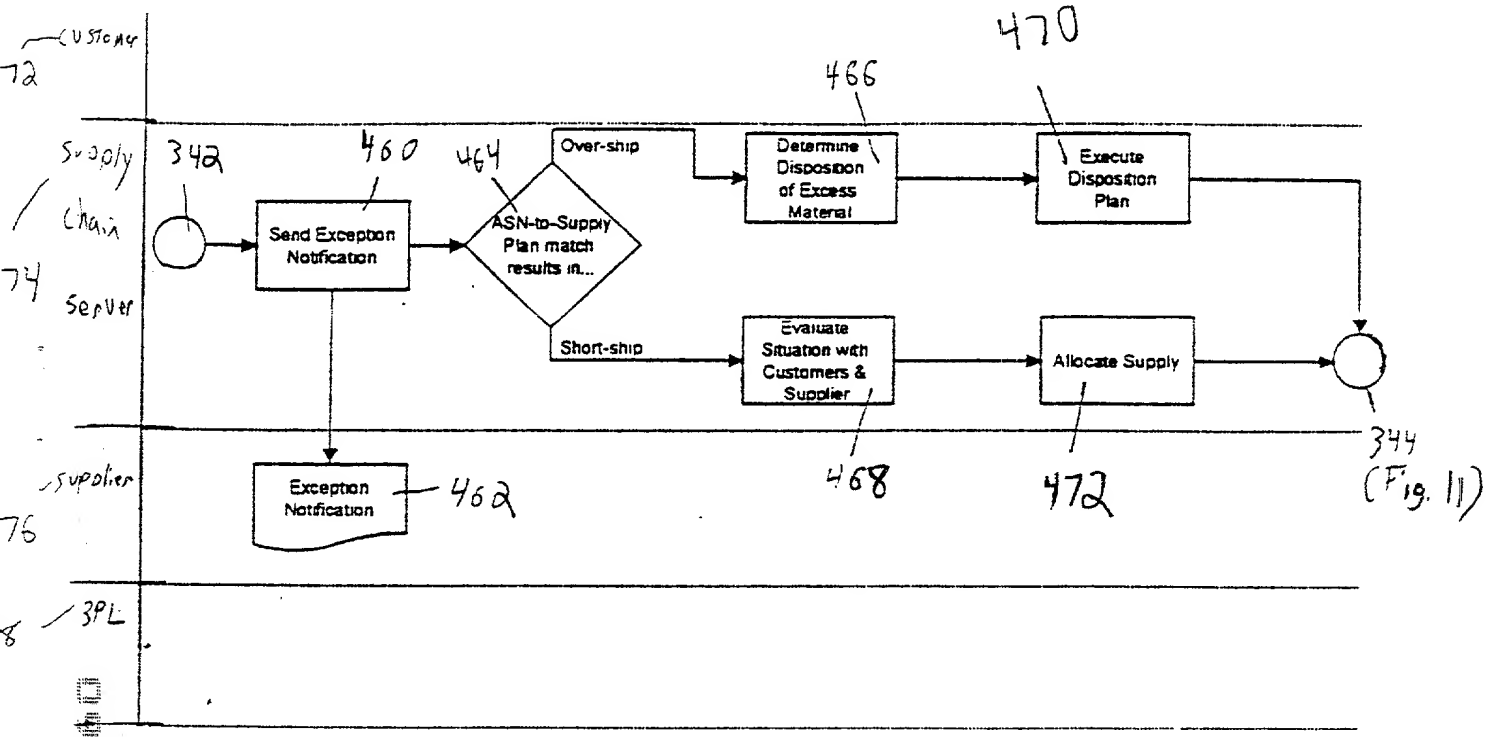


Fig. 10 B

Procurement: Process Flow

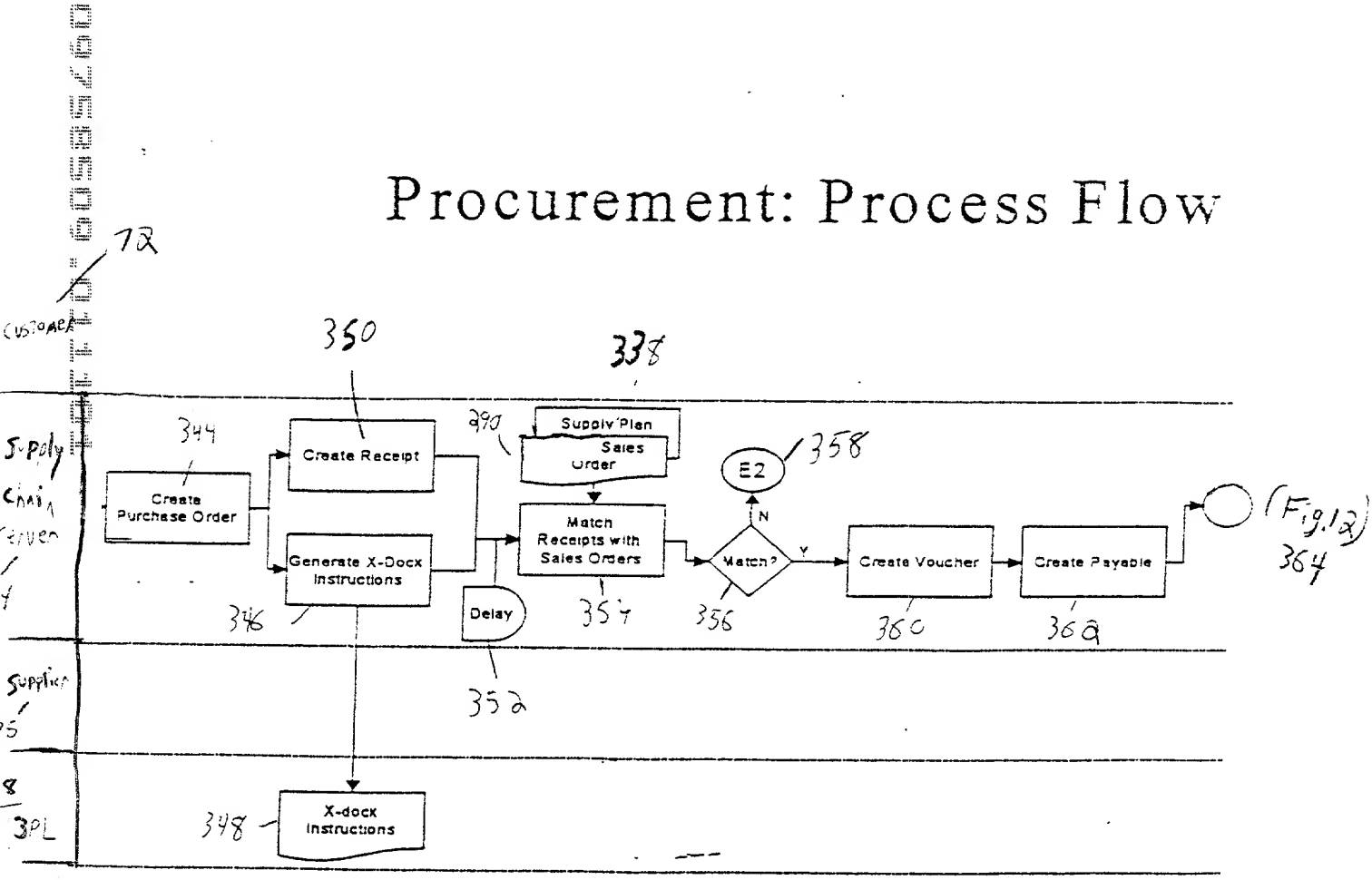


Fig 11

Procurement: Process Flow

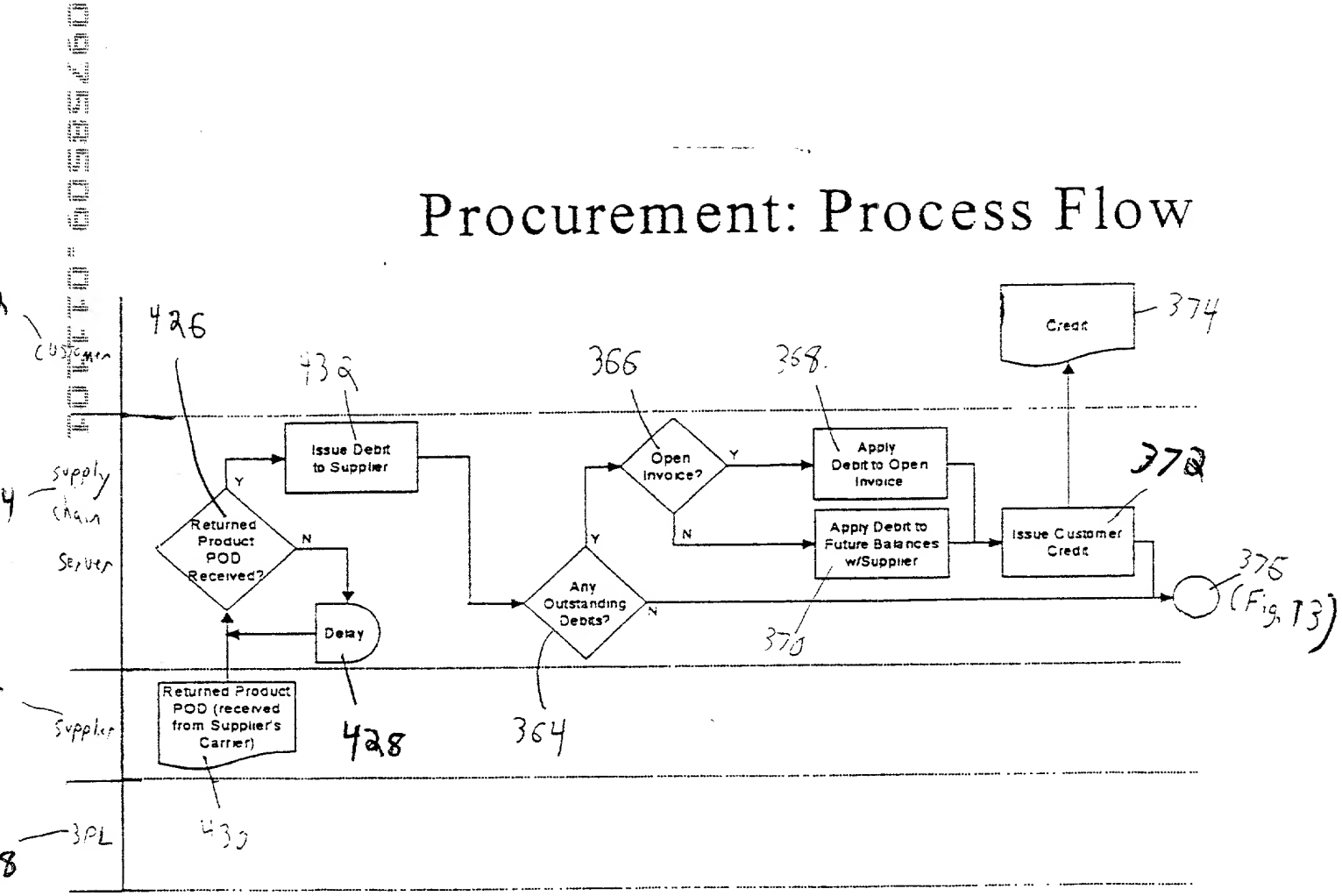


Fig. 12

Procurement: Process Flow

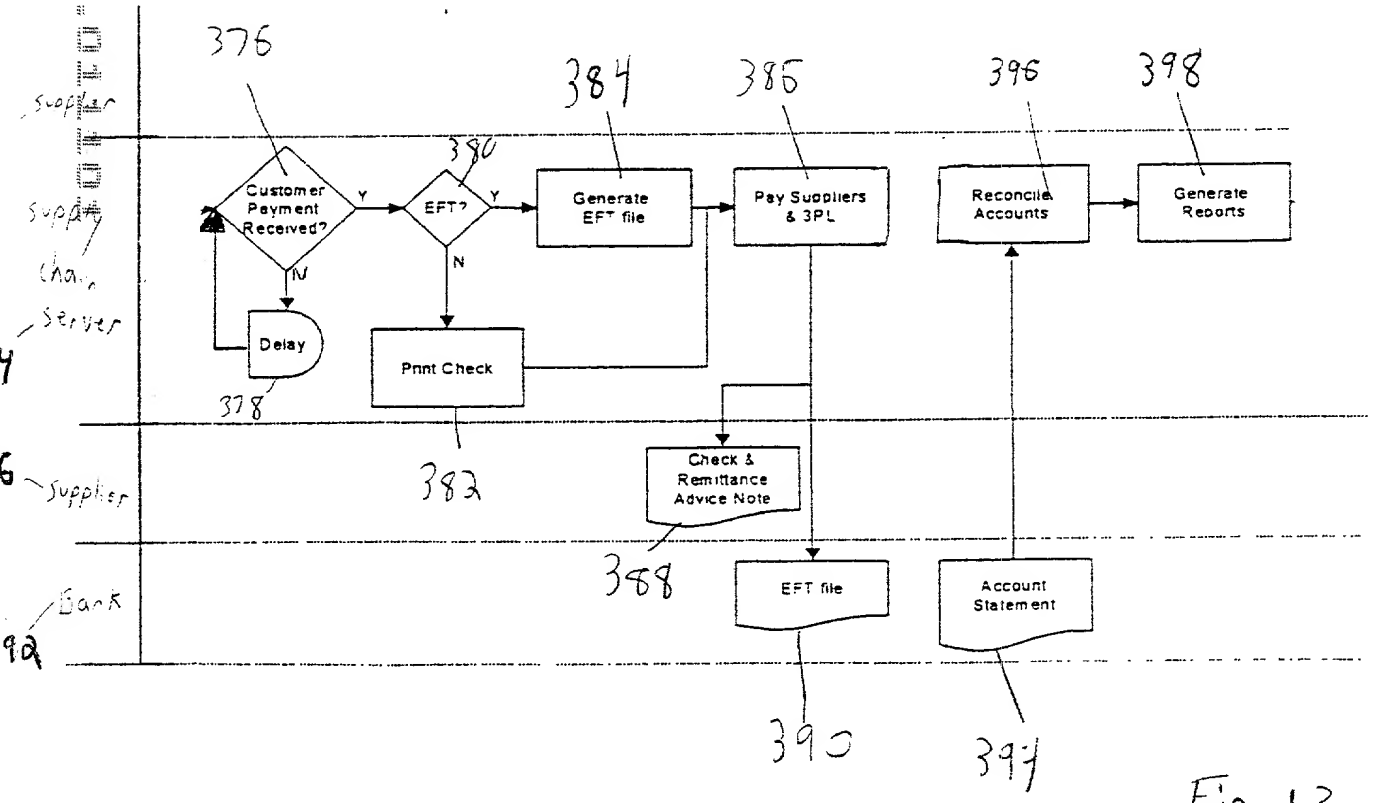


Fig. 13

Procurement: Process Flow

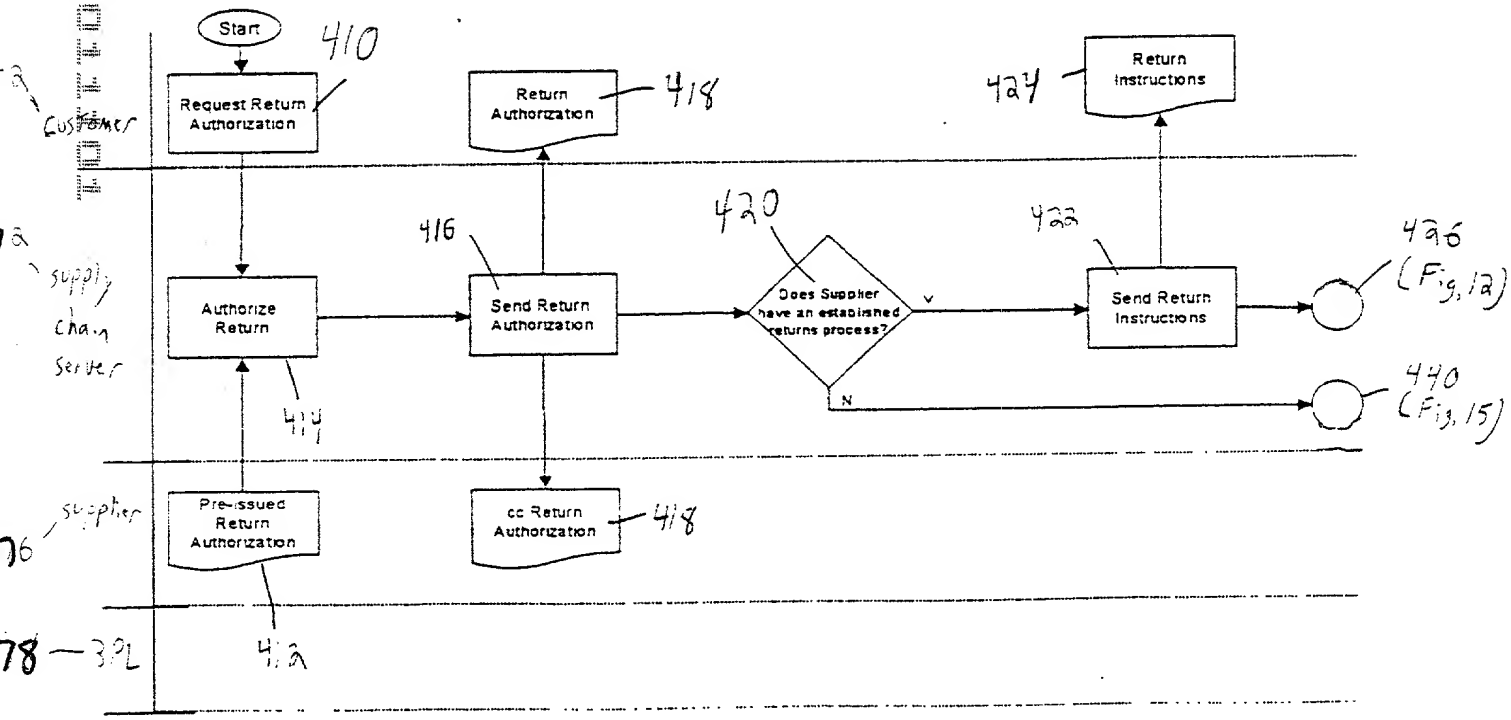


Fig. 14

Procurement: Process Flow

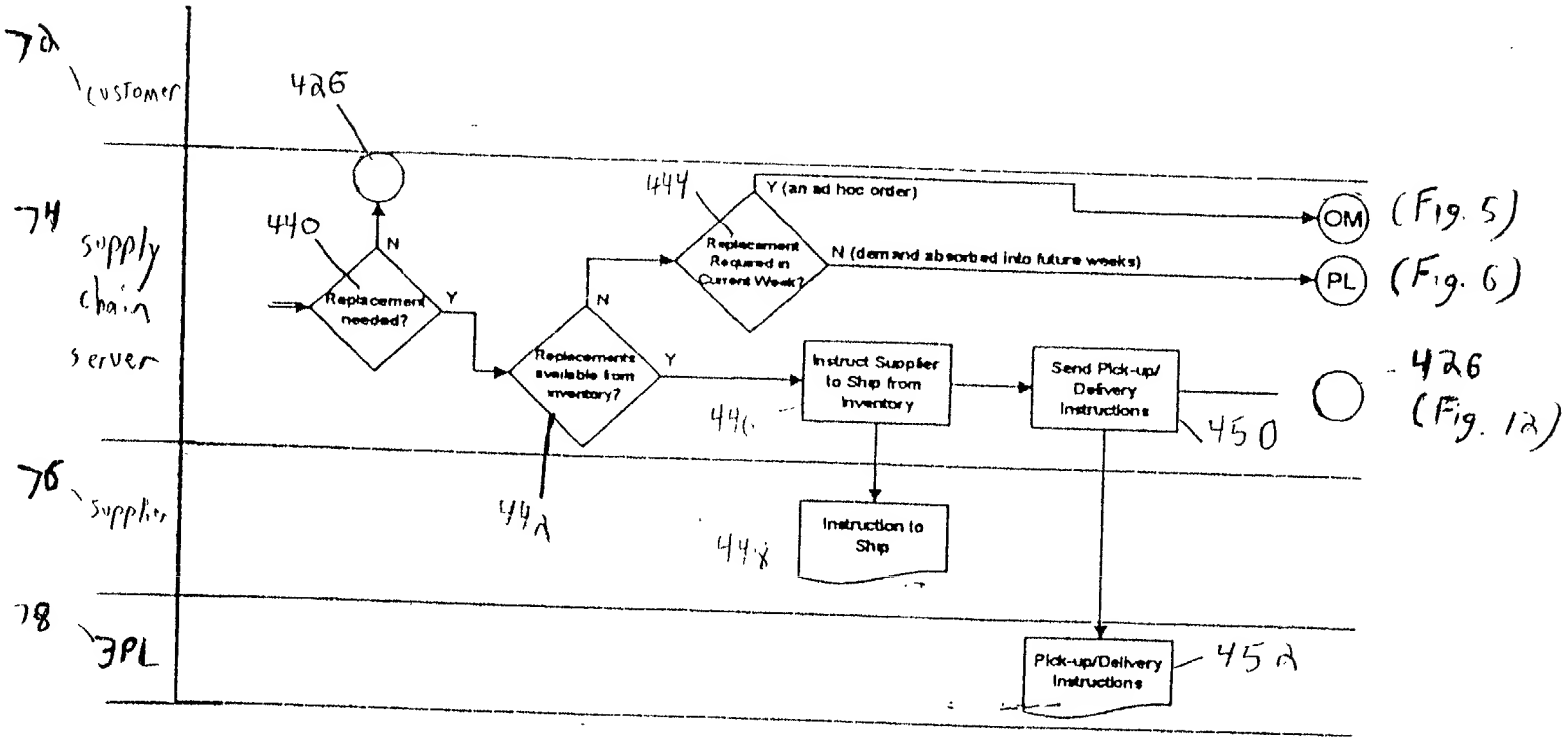


Fig. 15

Time-Phased Fulfillment Flow

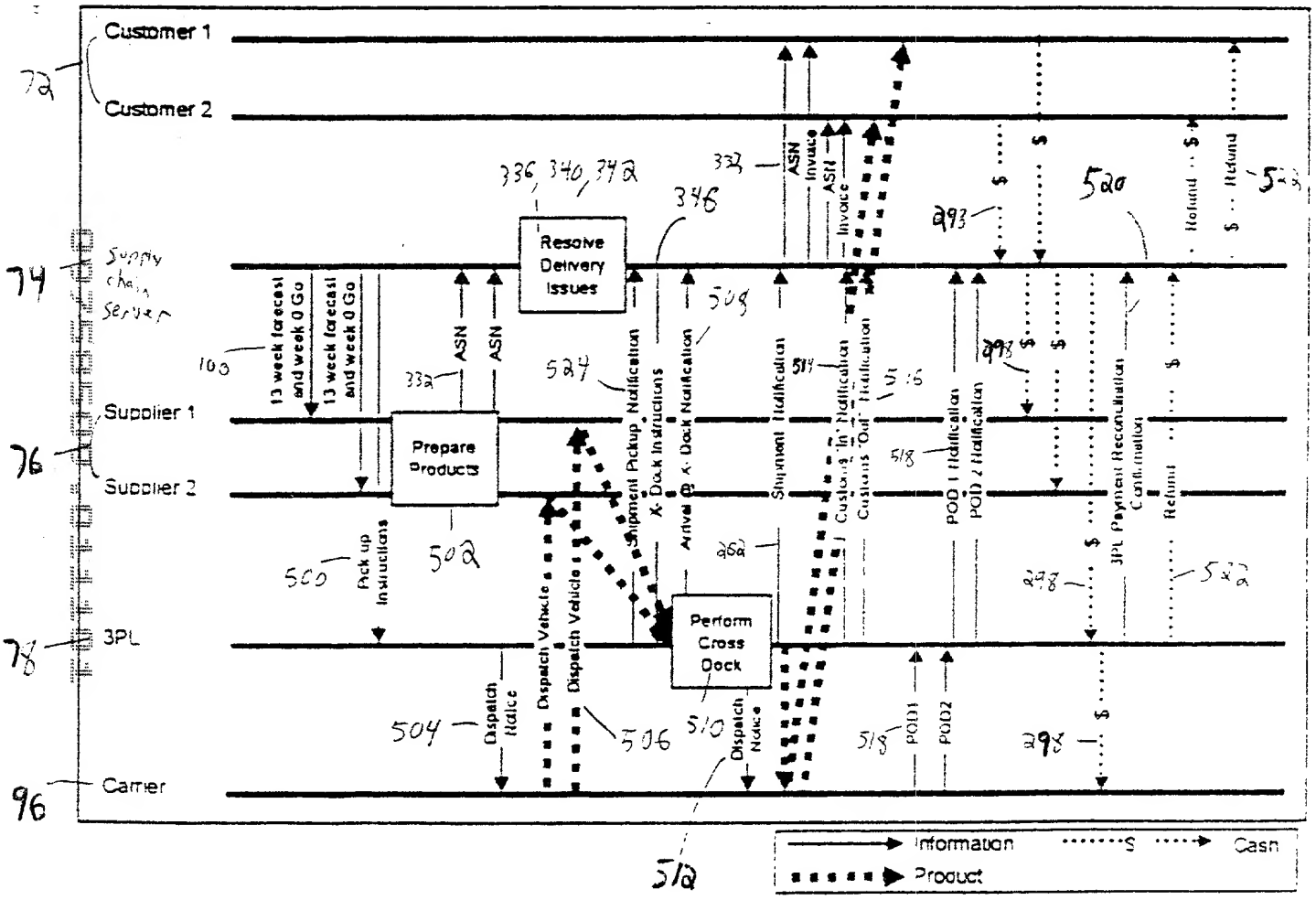


Fig. 16

Billing and Payment

Process Flow

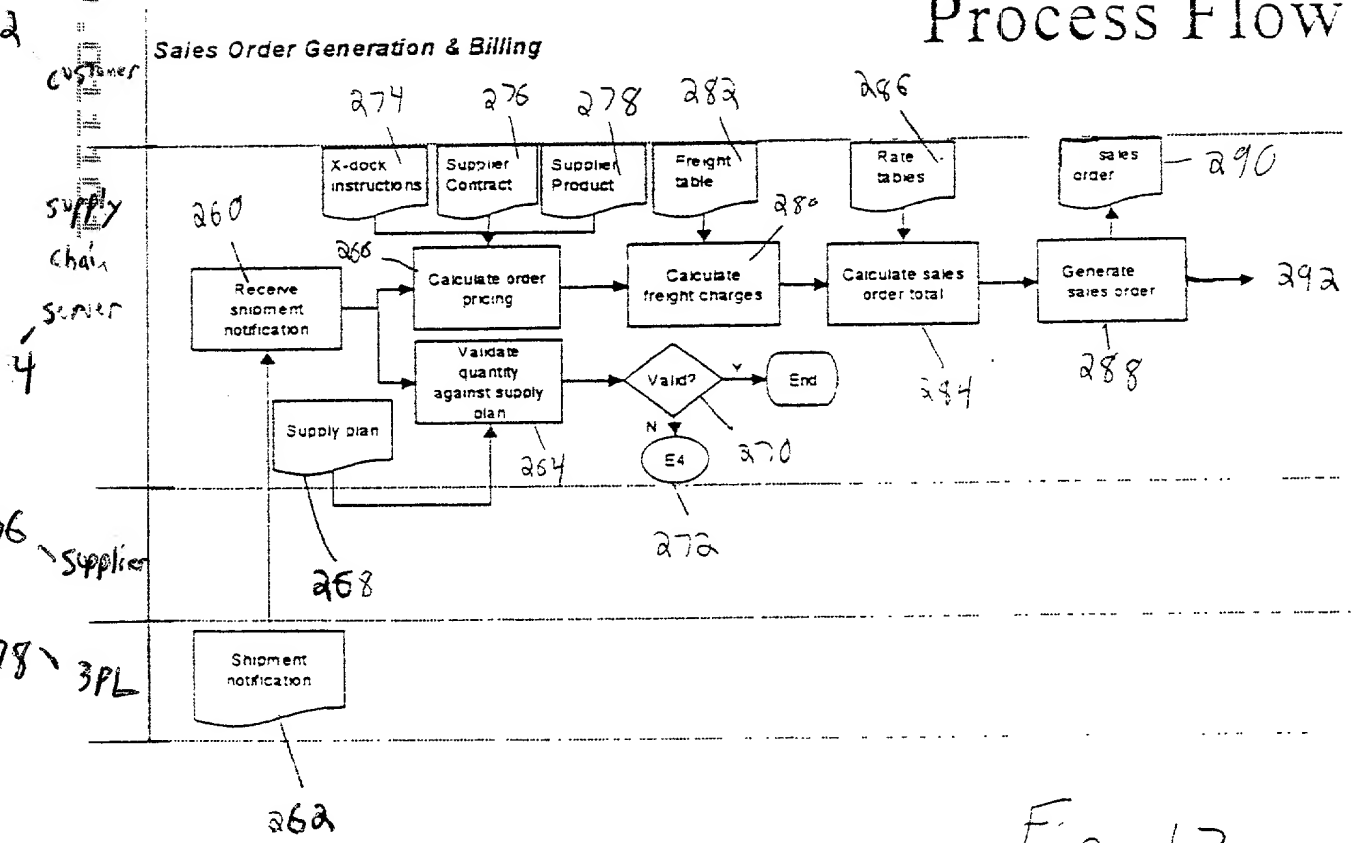


Fig. 17

Billing and Payment :

Process Flow

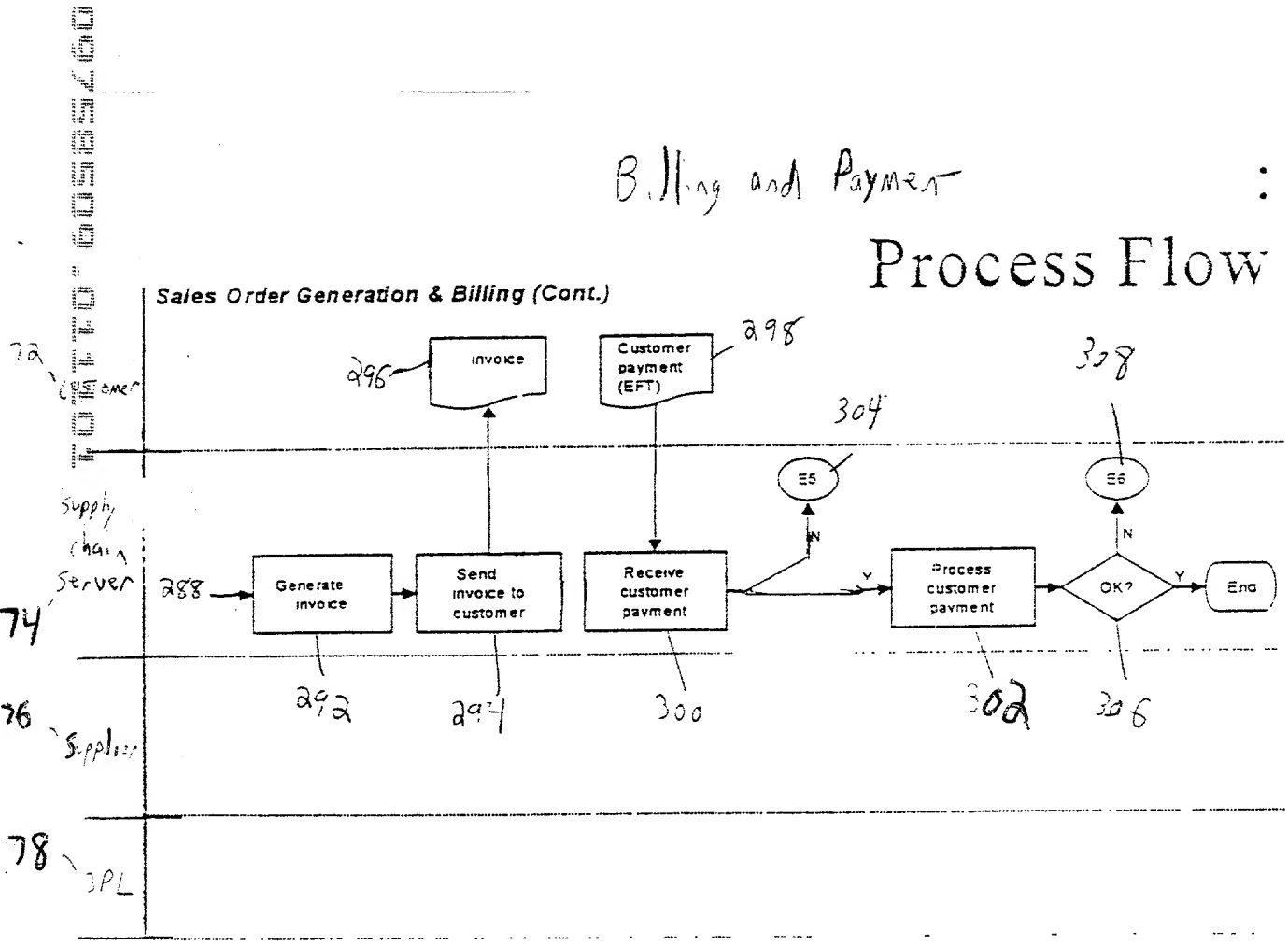


Fig. 18

Time-Phased Information Delivery

	– *Real-time* –	– *Daily* –	– *Weekly* –	– *Monthly* –
Operational	• Order Status • [Eventually] Customer Info Updates • Abort Code • Email to Account Team • Shipment Tracking Link to 3PL site) • Alerts/Messages	• Customer Open Orders • Customer Part #s Purchased week-to-date • $'s spent Week-to-date • Allocation Watch • Part #-specific quantities purchased • Week-to-date • Commodity-specific quantities purchased week-to-date • Top-off parts ATP*	• Customer Part #s Purchased month-to-date • Customer $s spent Month-to-date • Customer Order Quantities • What's New • Market Info • Customer Forecast Log • Account Balances • Part #-specific quantities purchased month-to-date • Commodity-specific quantities purchased month-to-date	• Current Services (i.e., services customer has subscribed to) • Customer Part #s Purchased Year-to-date • Historical Statistics (Order Log, Forecast Log, Issues Resolved prior to current month) • Customer $s spent Week-to-date • Parts supplied by Supply Chain Network • Basic Data Service Reports • Part #-specific quantities purchased year-to-date • Commodity-specific quantities purchased year-to-date • Feedforward Reports • Premium Data Service Reports* • Bullseye Reports
Analysis		• Custom reports*	• Custom reports*	• Supplier performance statistics • Supply Chain performance statistics • Part # forecast accuracy/uptake % • 3PL performance statistics • Market Data Trends* • Custom Reports Analysis*

Fig. 19

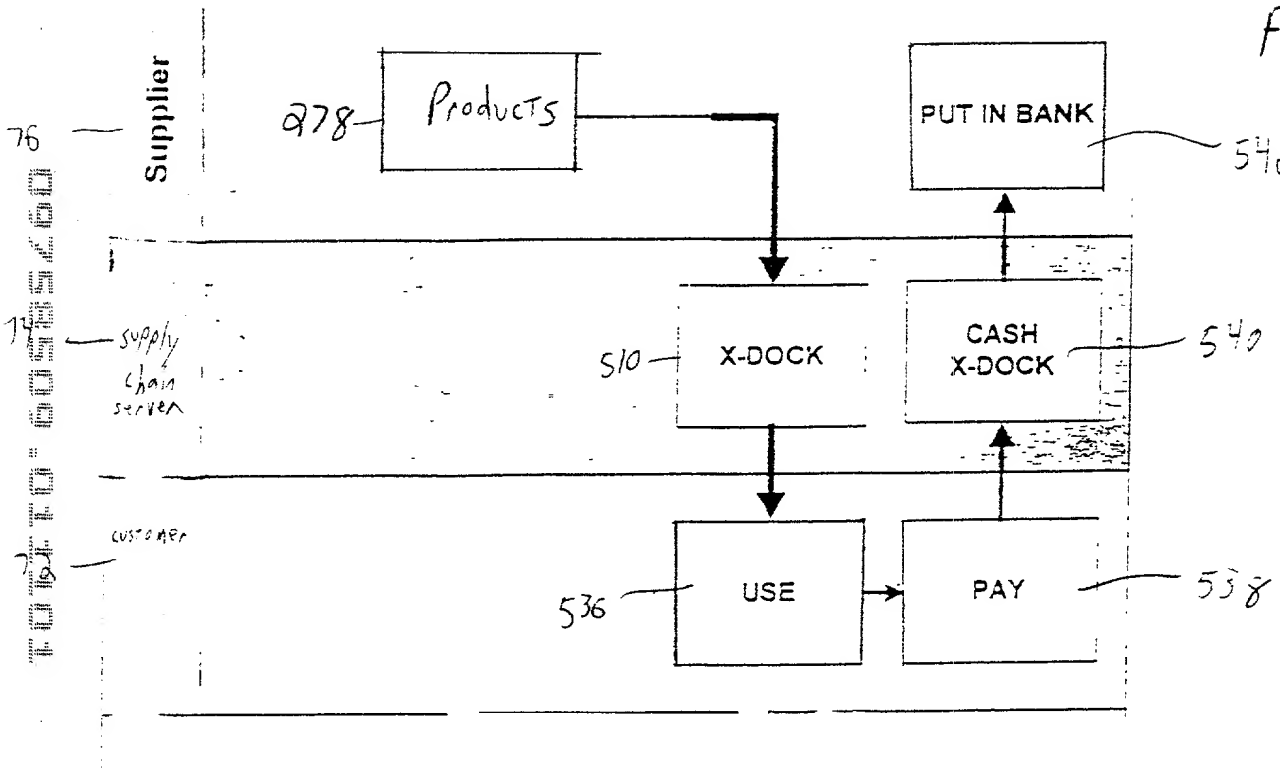

Supplier
76
278
Products
PUT IN BANK
542
supply chain server
74
510
X-DOCK
CASH X-DOCK
540
customer
536
USE
PAY
538

Fig. 20

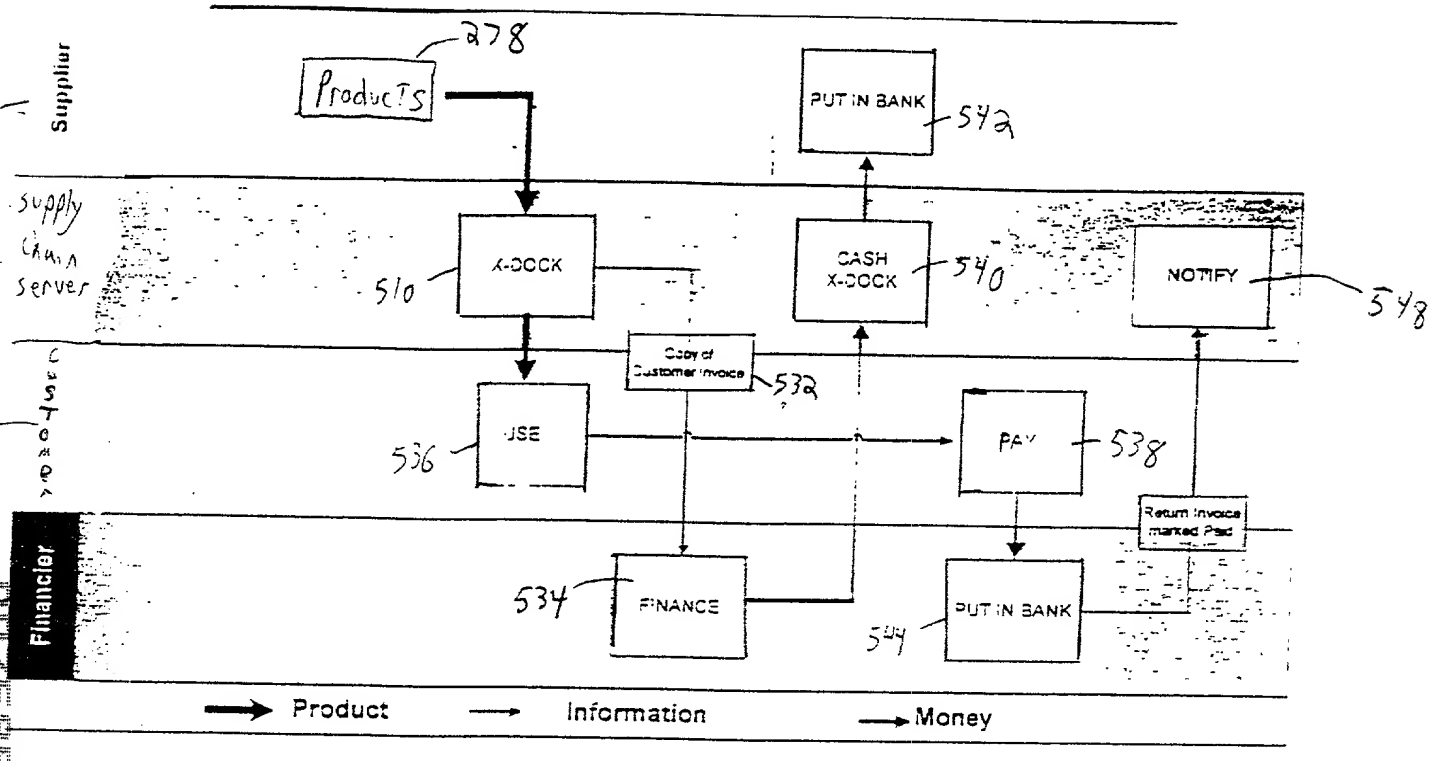

Supplier
Products
278
PUT IN BANK
542
Supply Chain Server
X-DOCK
510
CASH X-DOCK
540
NOTIFY
548
Copy of Customer Invoice
532
USE
536
PAY
538
Return Invoice marked Paid
Financier
FINANCE
534
PUT IN BANK
544
Product
Information
Money

Fig. 21

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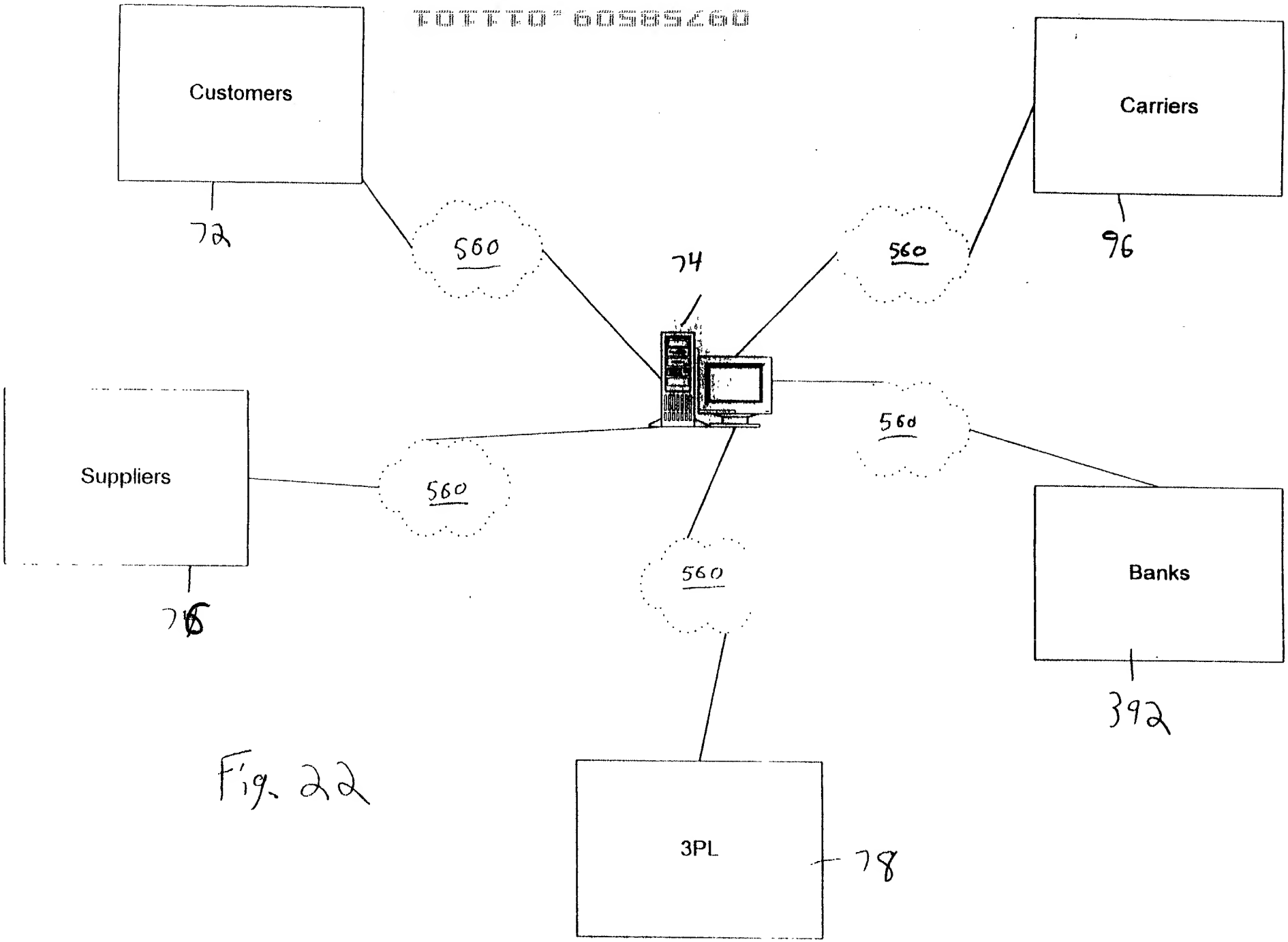

Fig. 22

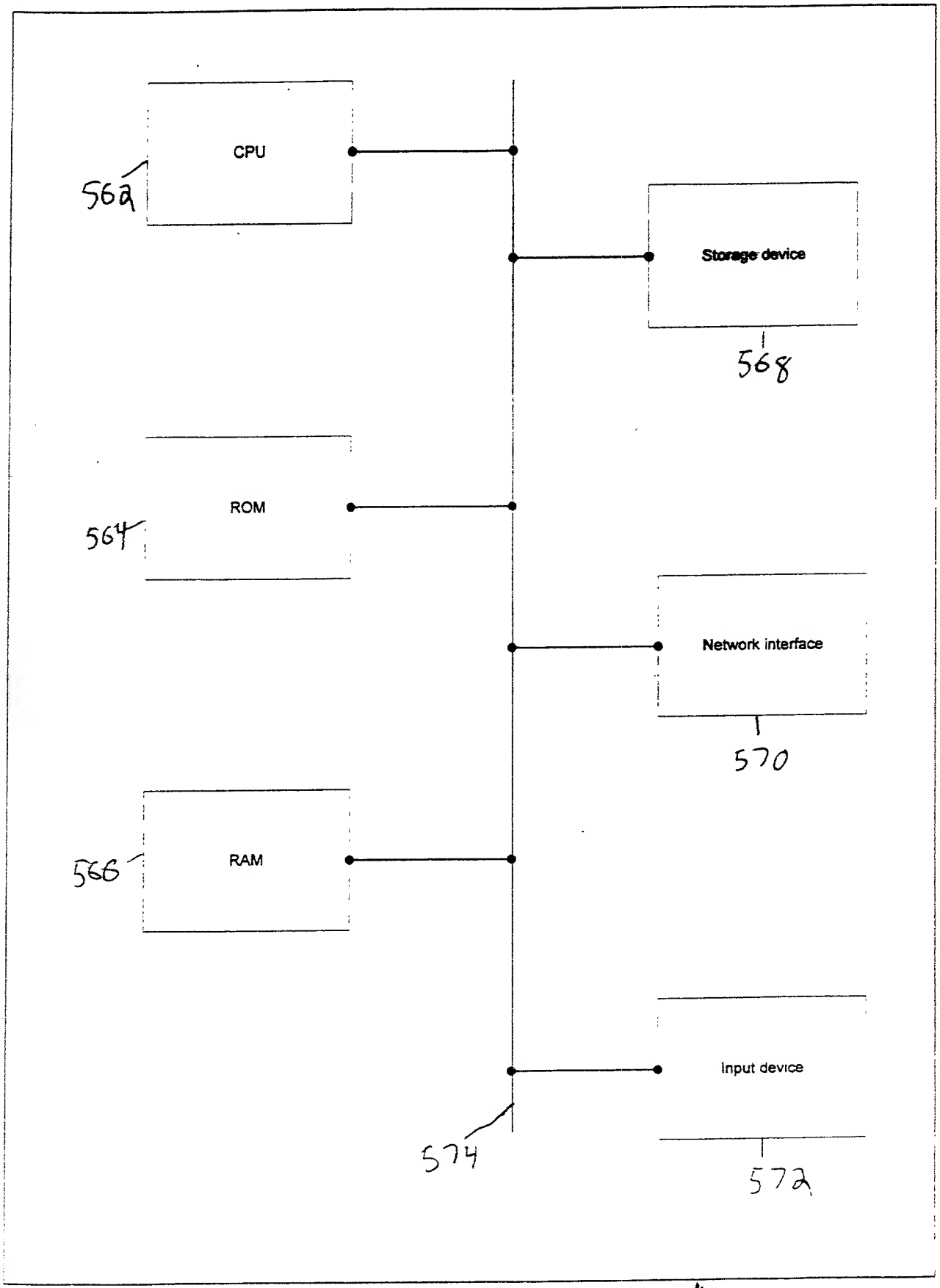
CPU
562
Storage device
568
ROM
564
Network interface
570
RAM
566
Input device
574
572

Fig. 23

74

TOTTO" 60585260

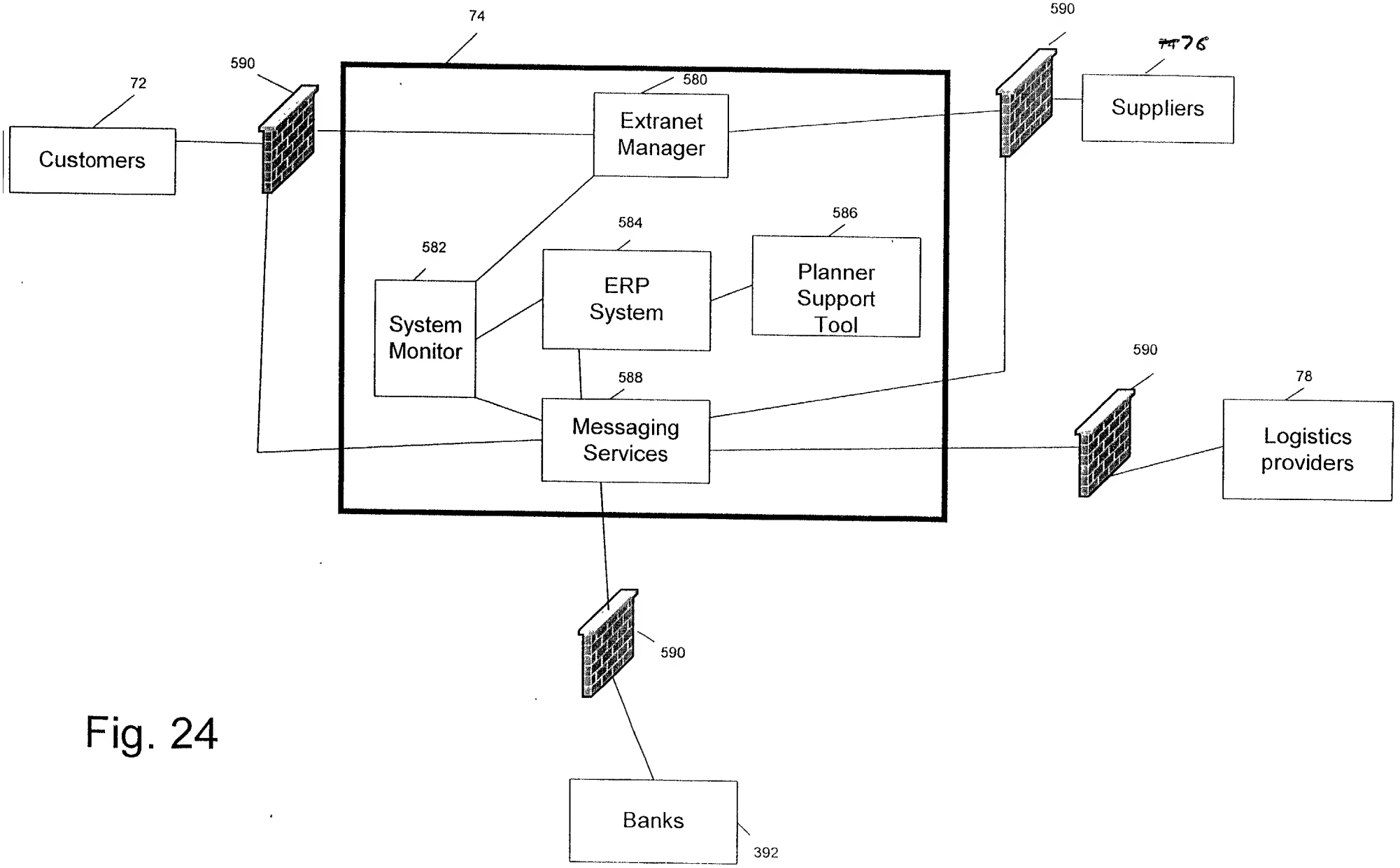

Fig. 24